



PYROFIL™ MR40 12K

Typical Fiber Properties

Tow Tensile	Strength	640 4410	ksi MPa	JISR 7601
	Modulus	43 295	msi GPa	
Typical Density		0.064 1.76	lb.in ³ g/cm ³	JISR 7601
Typical Yield	12K	825 600	yds/lb mg/m	JISR 7601

Typical Mechanical Properties

Tensile Properties	0°	Strength*	387 2670	ksi MPa	ASTM D3039 / Vf=60.0%
		Modulus*	24.4 168	msi GPa	ASTM D3039 / Vf=60.0%
	90°	Strength	11 73	ksi MPa	ASTM D3039 / Vf=55.9%
		Modulus	1.1 8	msi GPa	ASTM D3039 / Vf=55.9%
Compressive Properties	0°	Strength*	216 1490	ksi MPa	SRM 1-88 / Vf=60.0%
		Modulus*	21.3 147	msi GPa	SRM 1-88 / Vf=60.0%
Flexural Properties	0°	Strength*	360 2500	ksi MPa	ASTM D790 / L/d=40 / Vf=60.0%
		Modulus*	23 160	msi GPa	ASTM D790 / L/d=40 / Vf=60.0%
	90°	Strength	18 130	ksi MPa	ASTM D790 / L/d=16 / Vf=55.9%
		Modulus	1.2 8	msi GPa	ASTM D790 / L/d=16 / Vf=55.9%
ILSS	Strength	13 85	ksi MPa	ASTM D2344 / L/d=4 / Vf=55.9%	

- 250F Epoxy Prepregs
- Resin: Mitsubishi Rayon #350 resin system
- Tensile and compressive properties are normalized to 60% fiber volume

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